

NUCLEOTIDES AND ANALOGS HAVING PHOTOREMOVABLE
PROTECTING GROUPS

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ABSTRACT OF THE DISCLOSURE

A synthetic strategy for the creation of large scale chemical diversity. Solid-phase chemistry, photolabile protecting groups, and photolithography are used to achieve light-directed spatially-addressable parallel chemical synthesis. Binary masking techniques are utilized in one embodiment. A reactor system, photoremovable protective groups, and improved data collection and handling techniques are also disclosed. A technique for screening linker molecules is also provided.

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